

● FIG. 1a

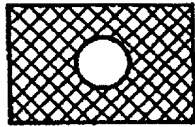


FIG. 1b



FIG. 1c

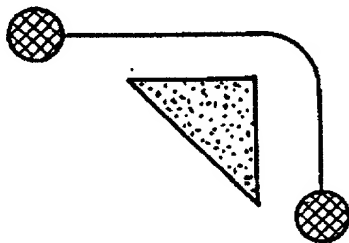


FIG. 1d

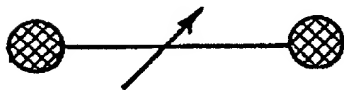


FIG. 1e

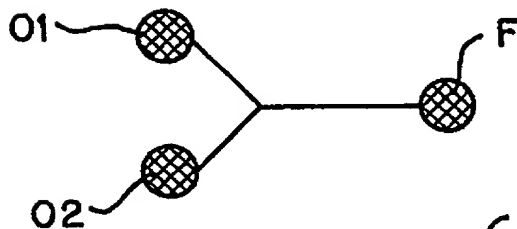


FIG. 1f

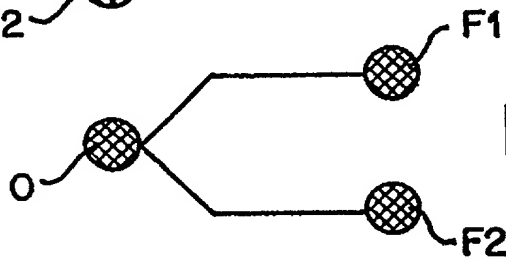


FIG. 1g

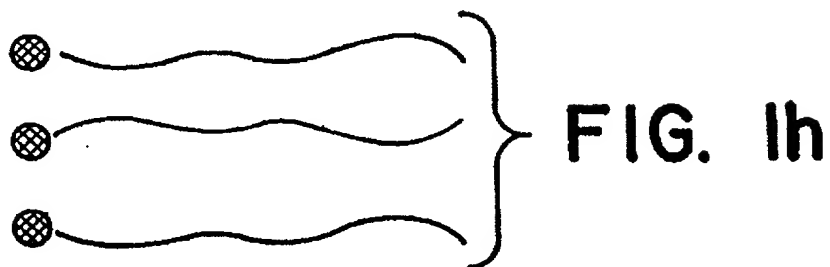


FIG. 1h

FIG. 2A

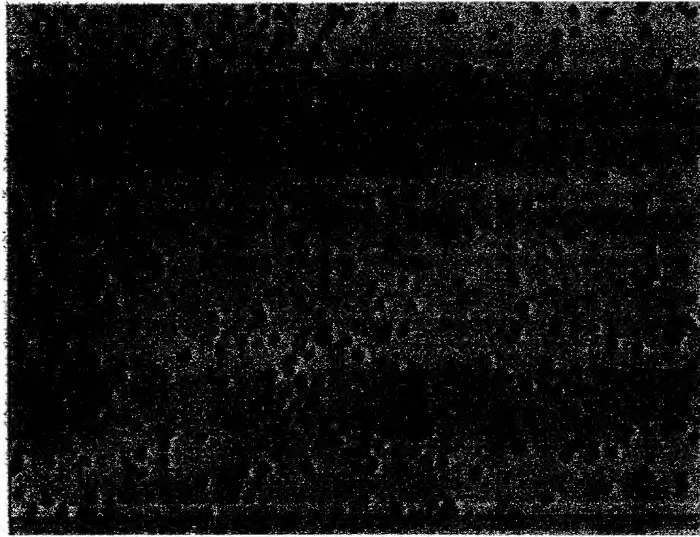
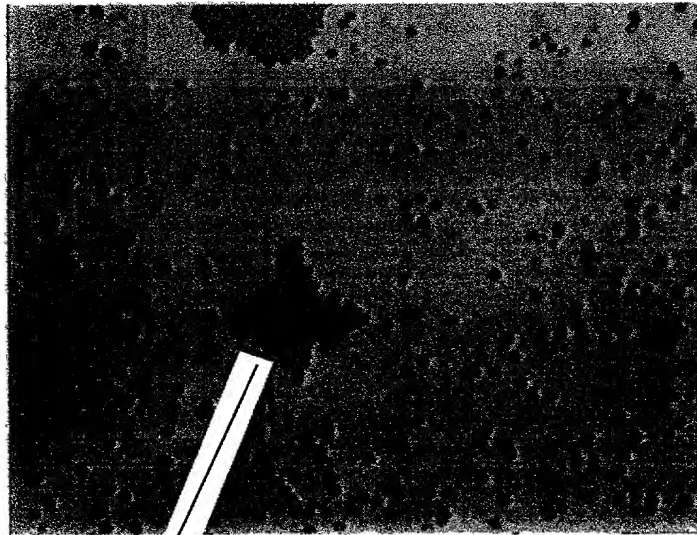


FIG. 2B



22

FIG. 2C

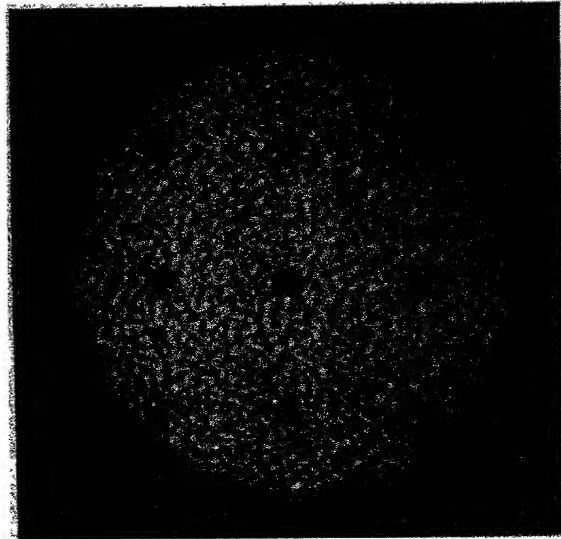


FIG. 2D

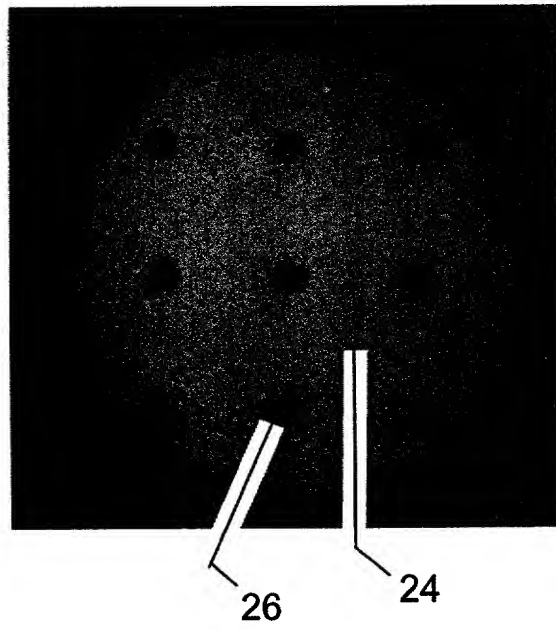


FIG. 3a

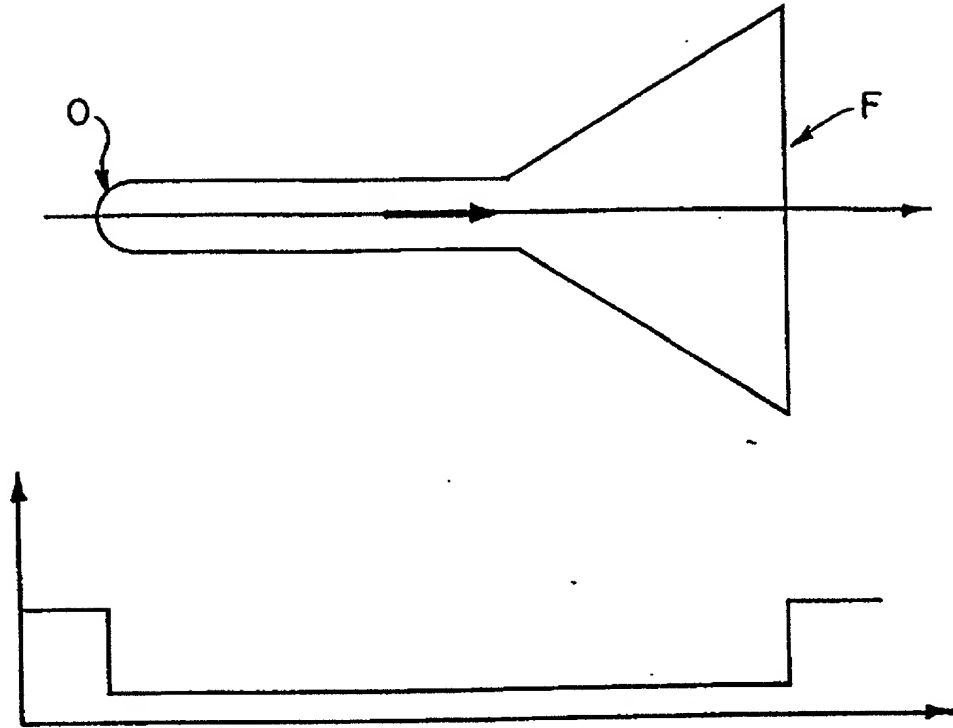


FIG. 3b

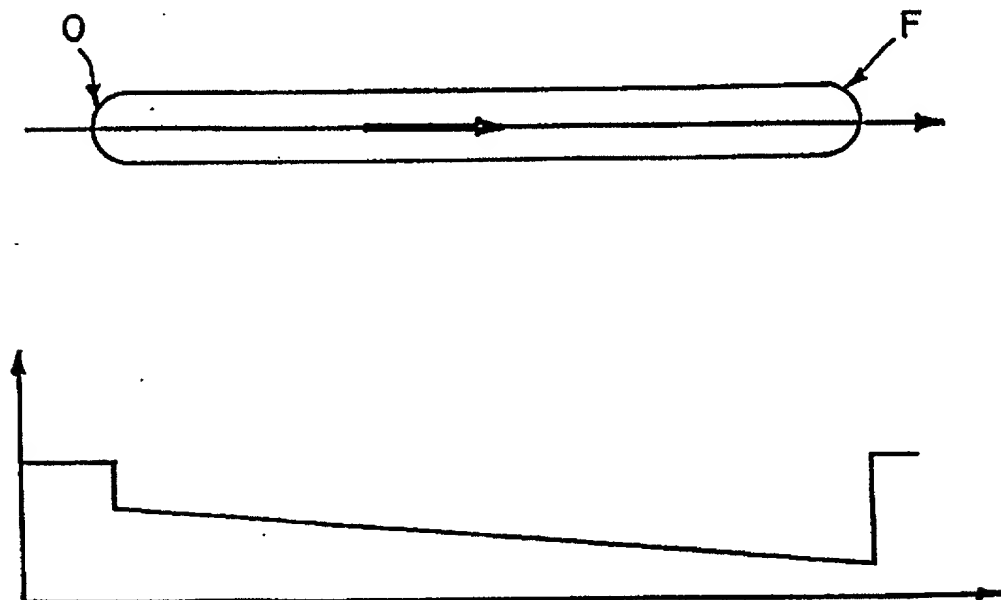


FIG. 3C



FIG. 3D



FIG. 4A

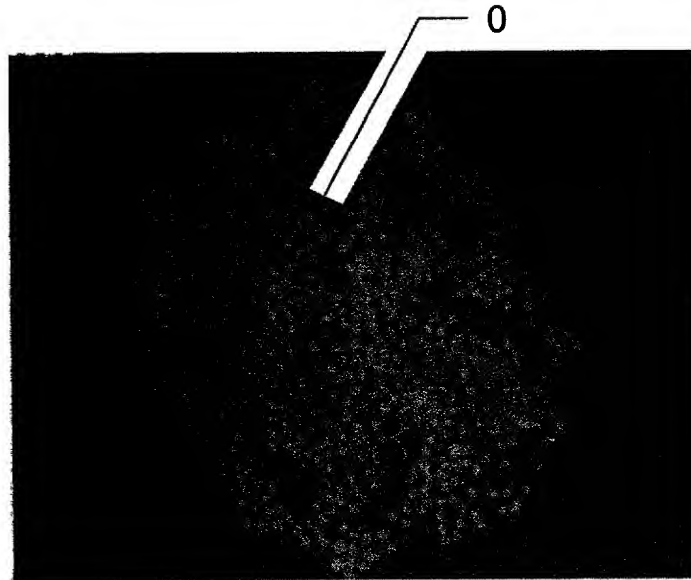


FIG. 4B

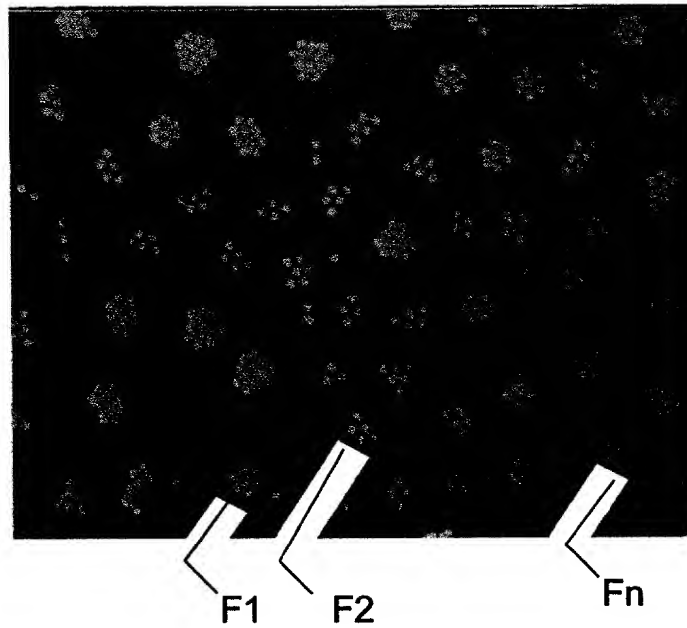


FIG. 5

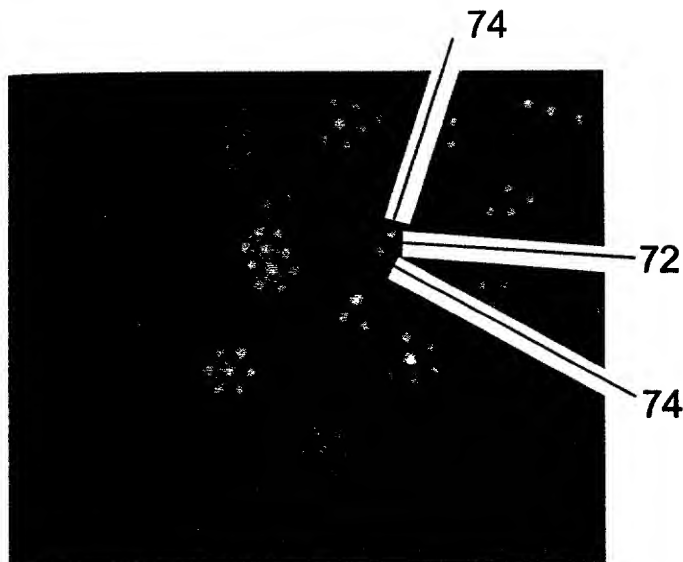
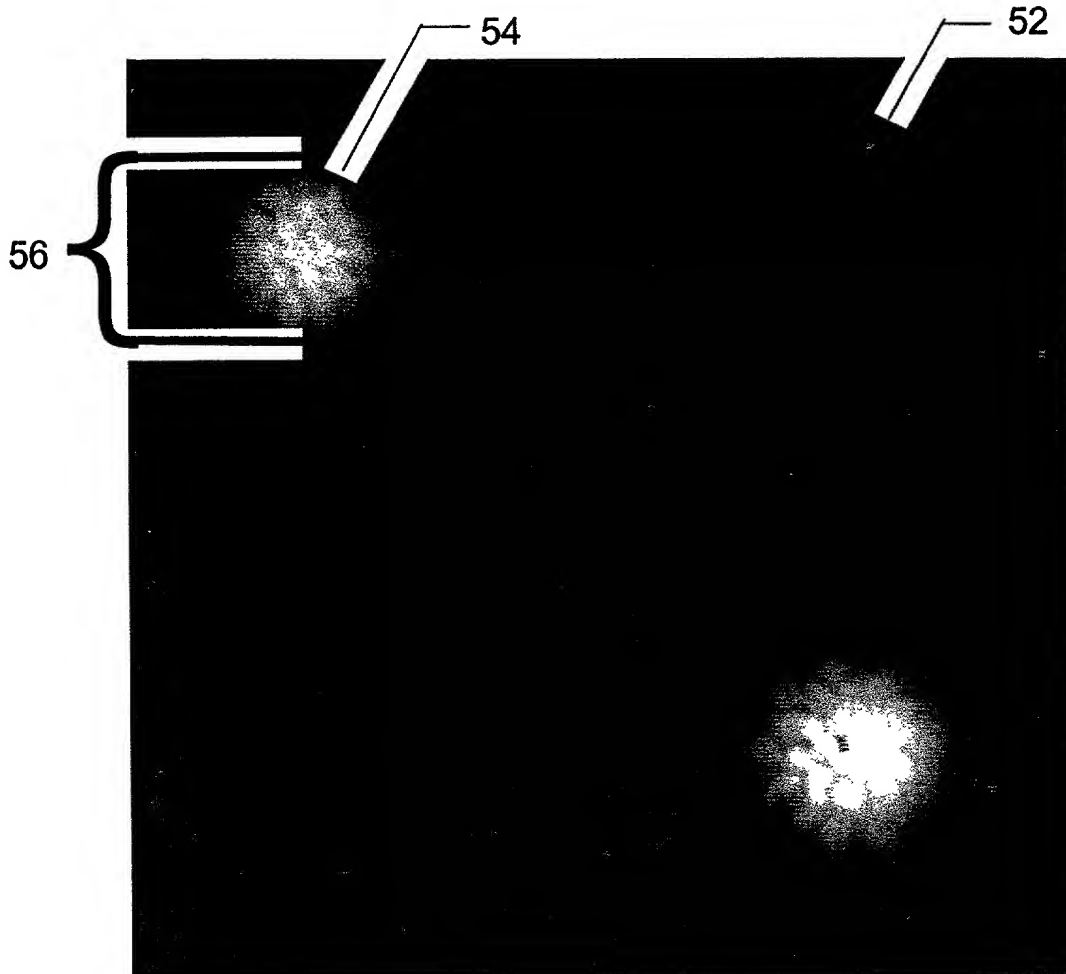


FIG. 7

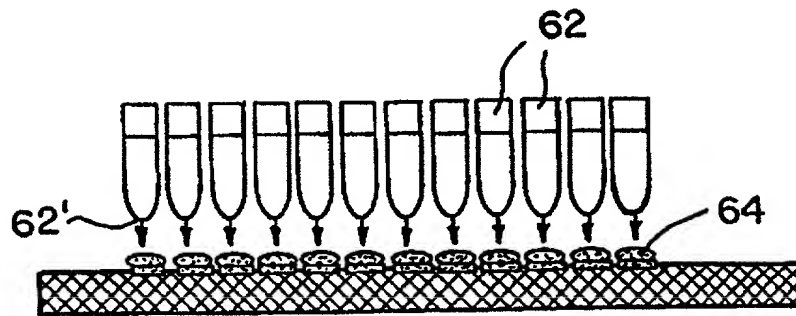
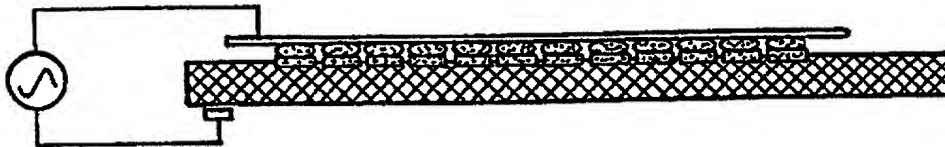
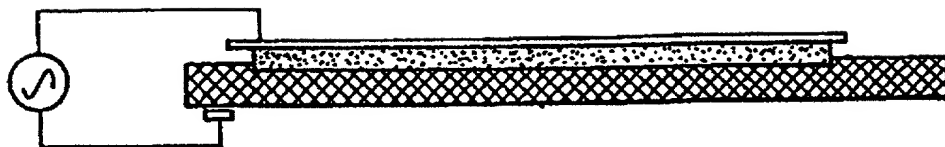
FIG. 6a**FIG. 6b****FIG. 6c**

FIG. 8

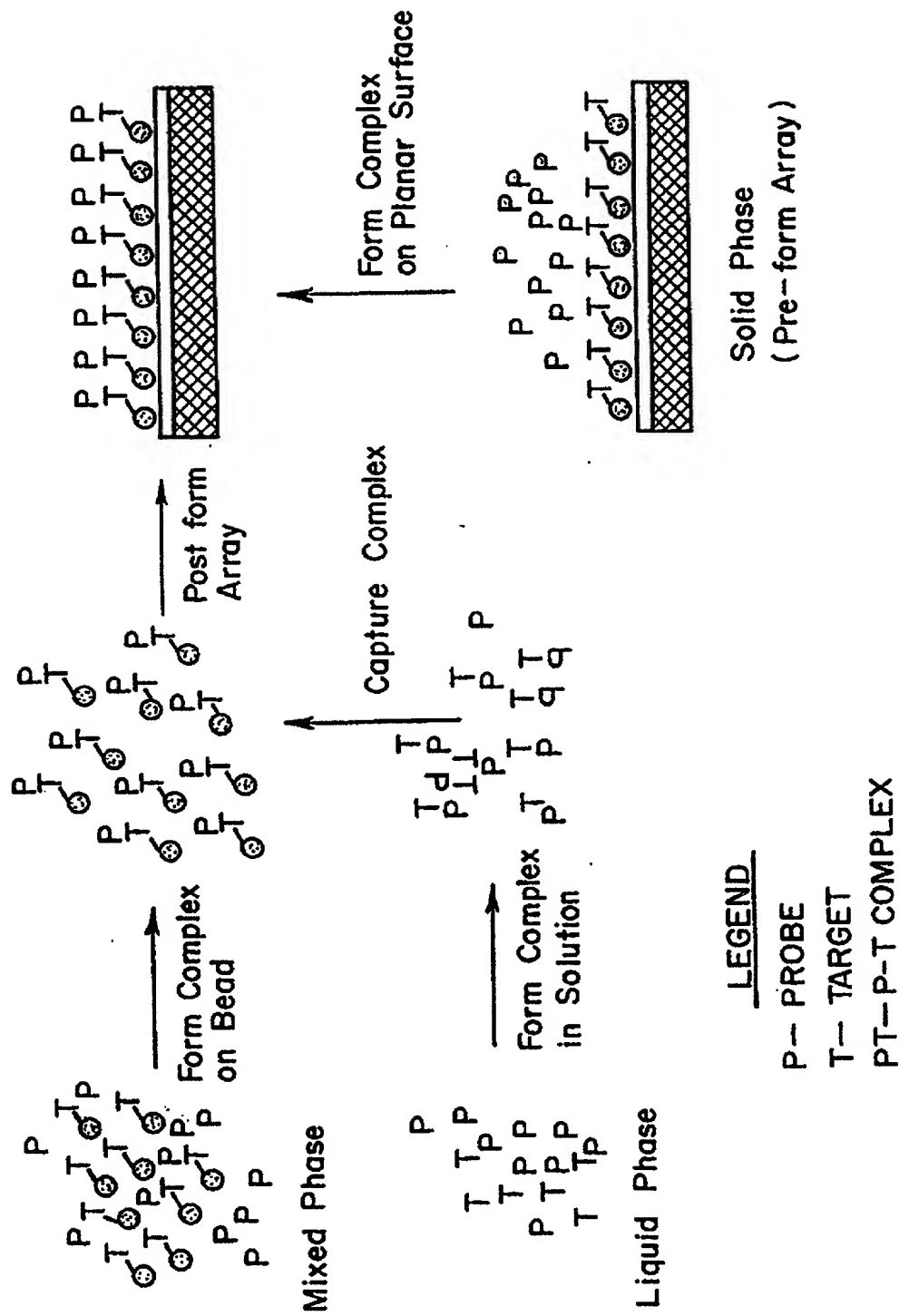


FIG. 9a

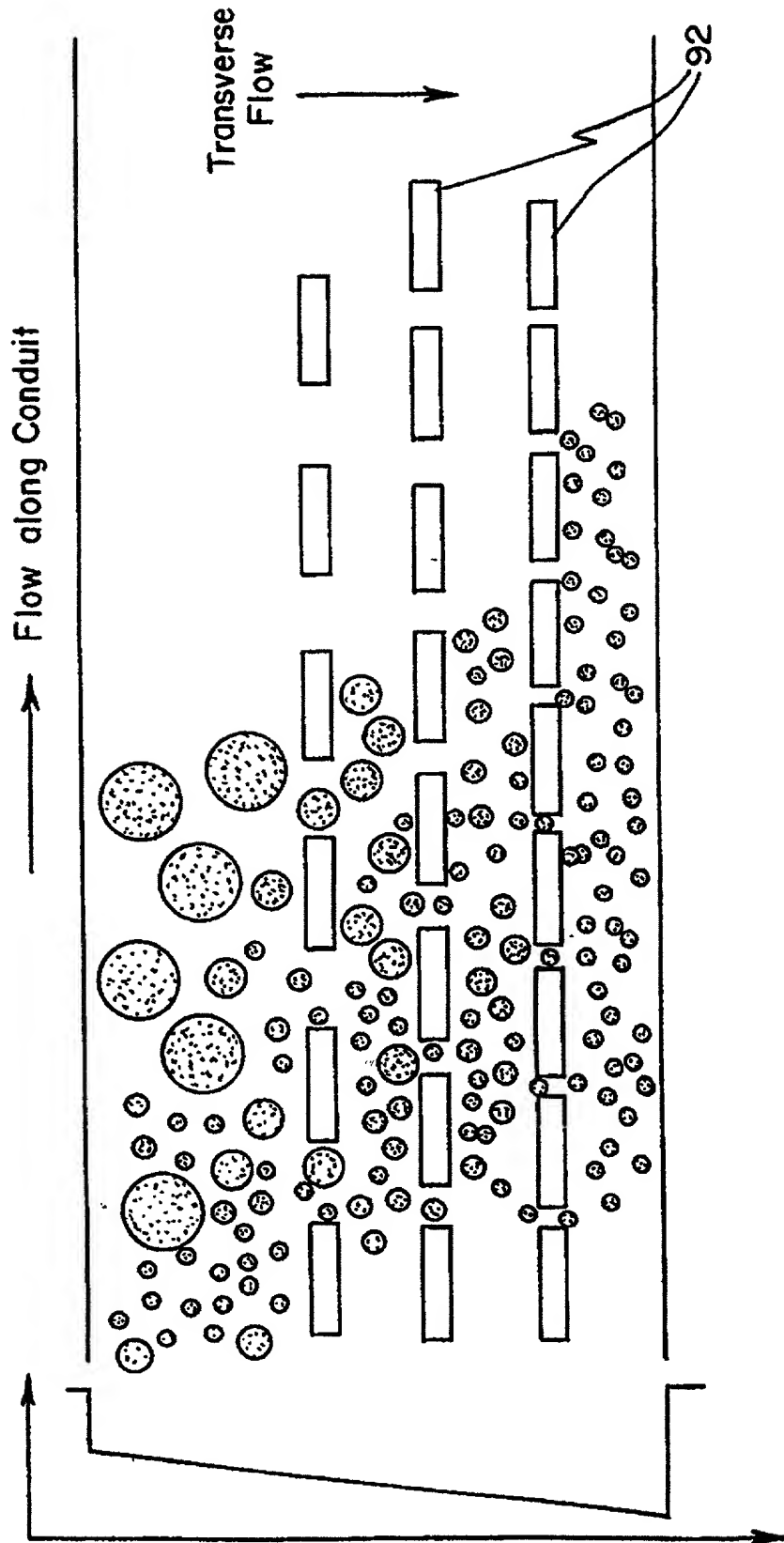


FIG. 9b

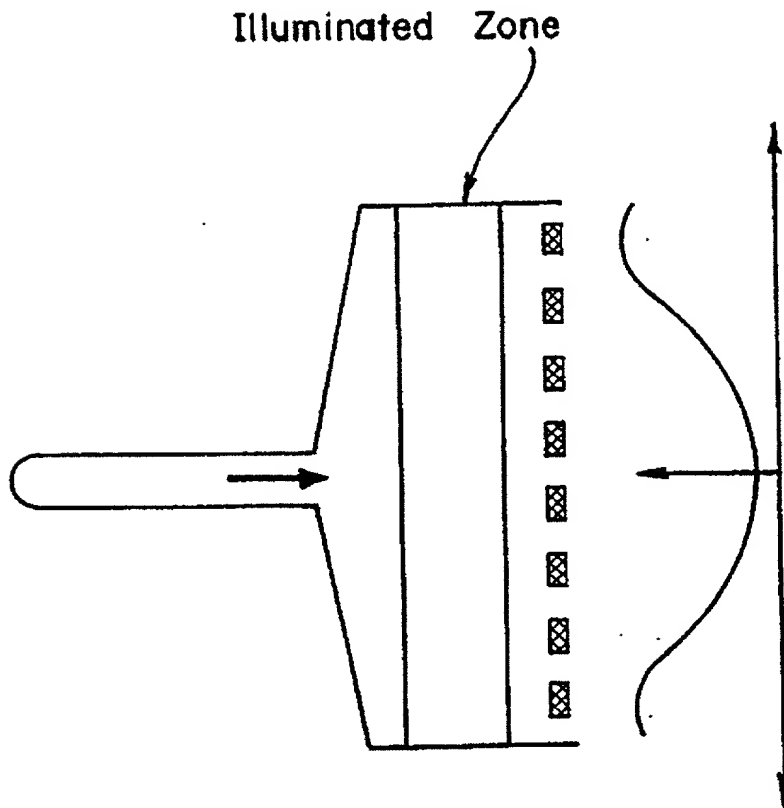


FIG. 9c



FIG. 11a

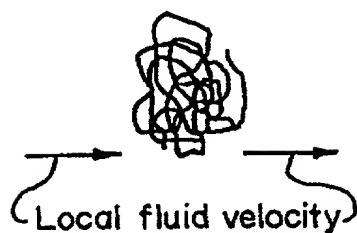


FIG. 11b



FIG. 11c

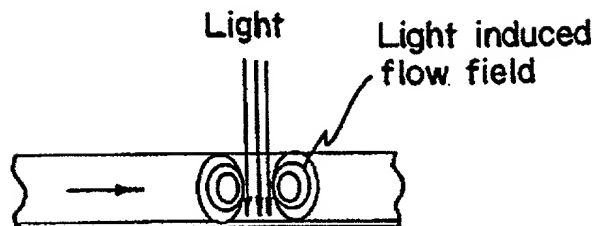


FIG. 11d

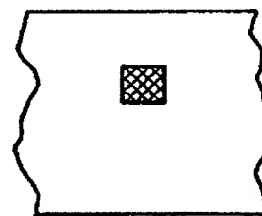
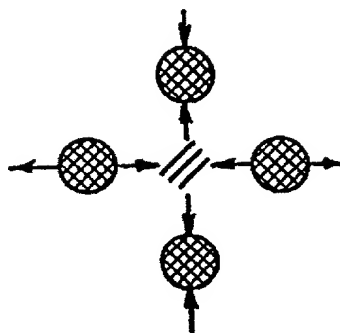
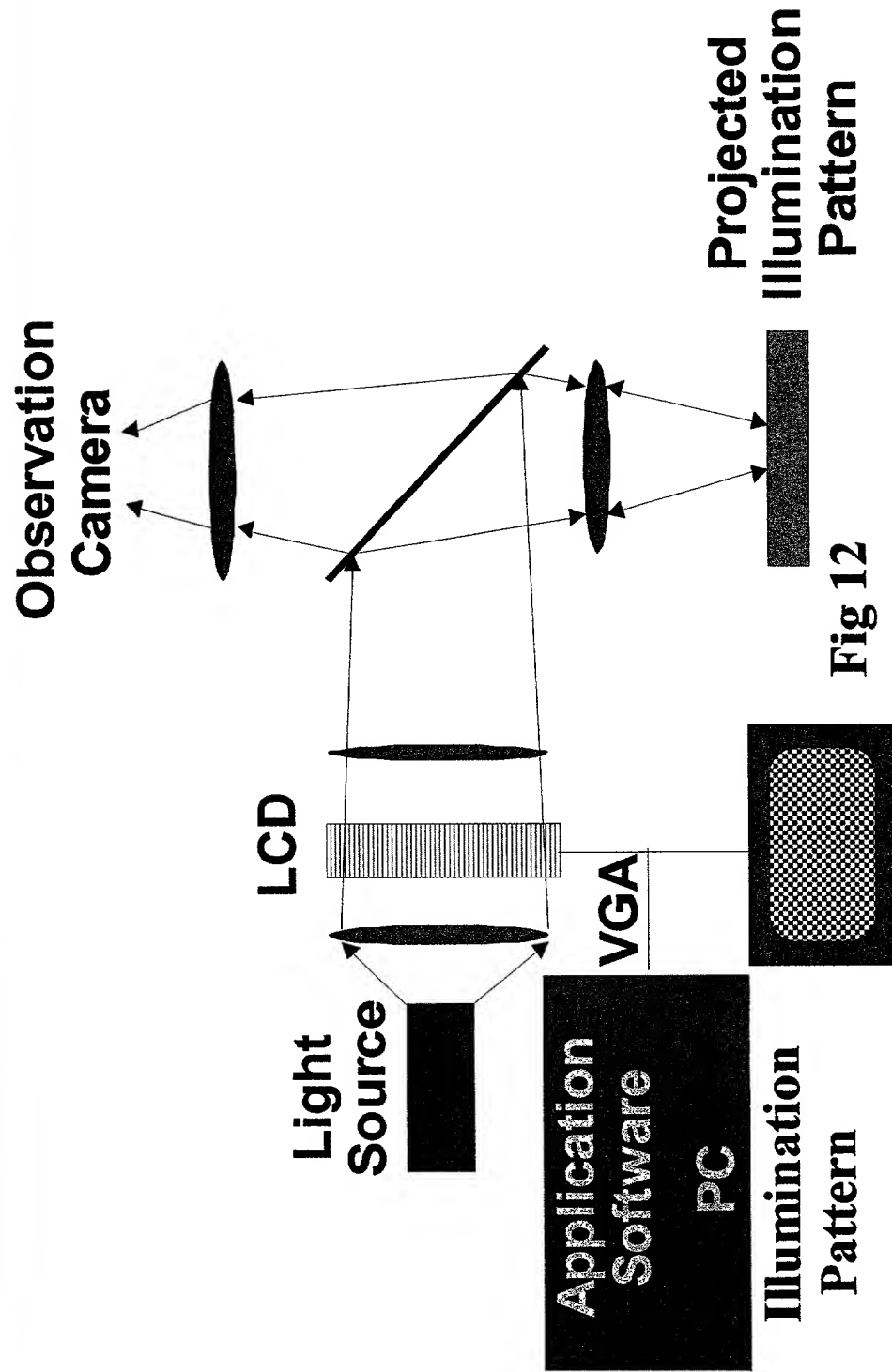


FIG. 11e



ILLUMINATION PATTERN GENERATOR



LCD-PARSE OPTICAL DESIGN

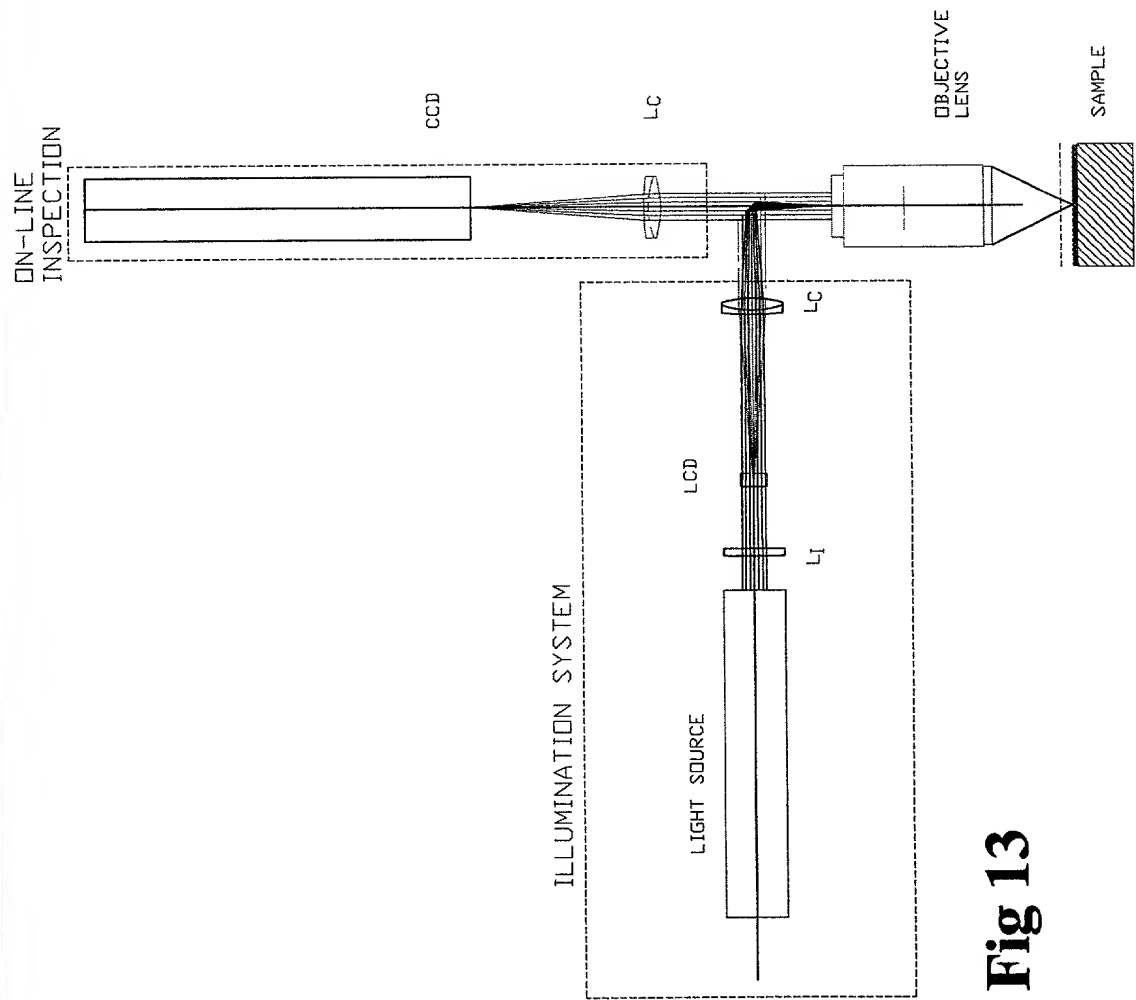


Fig 13

ARRAY SHAPE ADJUSTMENTS

CIRCLE

HORIZONTAL. LINE

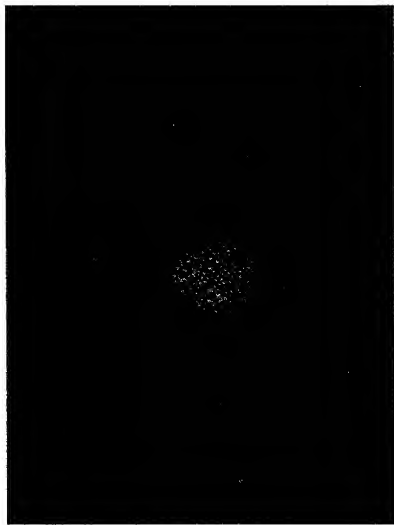


Figure 14a

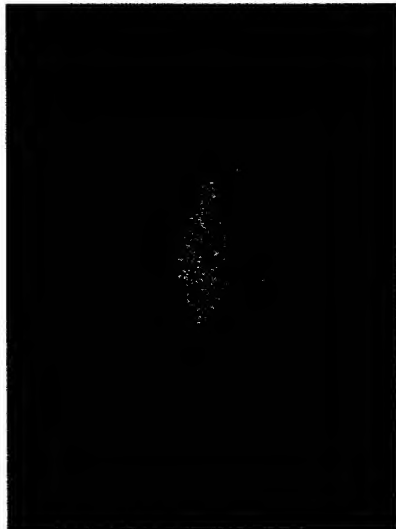


Figure 14c

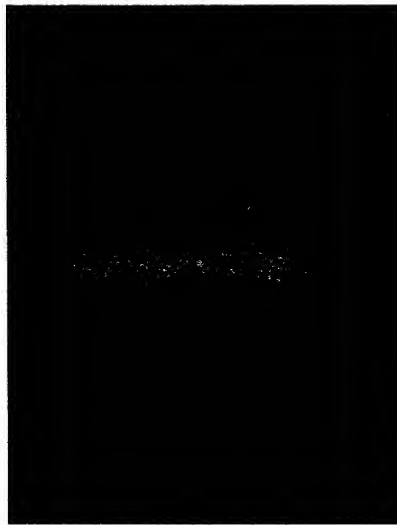


Figure 14b



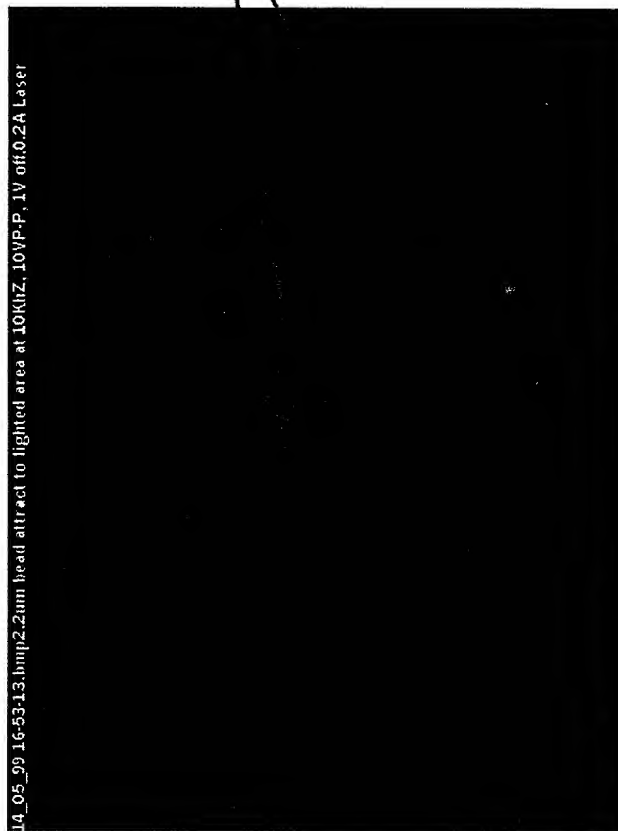
Figure 14d

VERTICAL LINE

SQUARE

COLLECTION AND ARRAY ASSEMBLY

14_05_99 16:53:13.bmp 2.2mm head attract to lighted area at 10KHz, 10VP-P, 1V off, 0.2A Laser



CollectedParticles

Figure 15a

EXPULSION AND CONFINEMENT

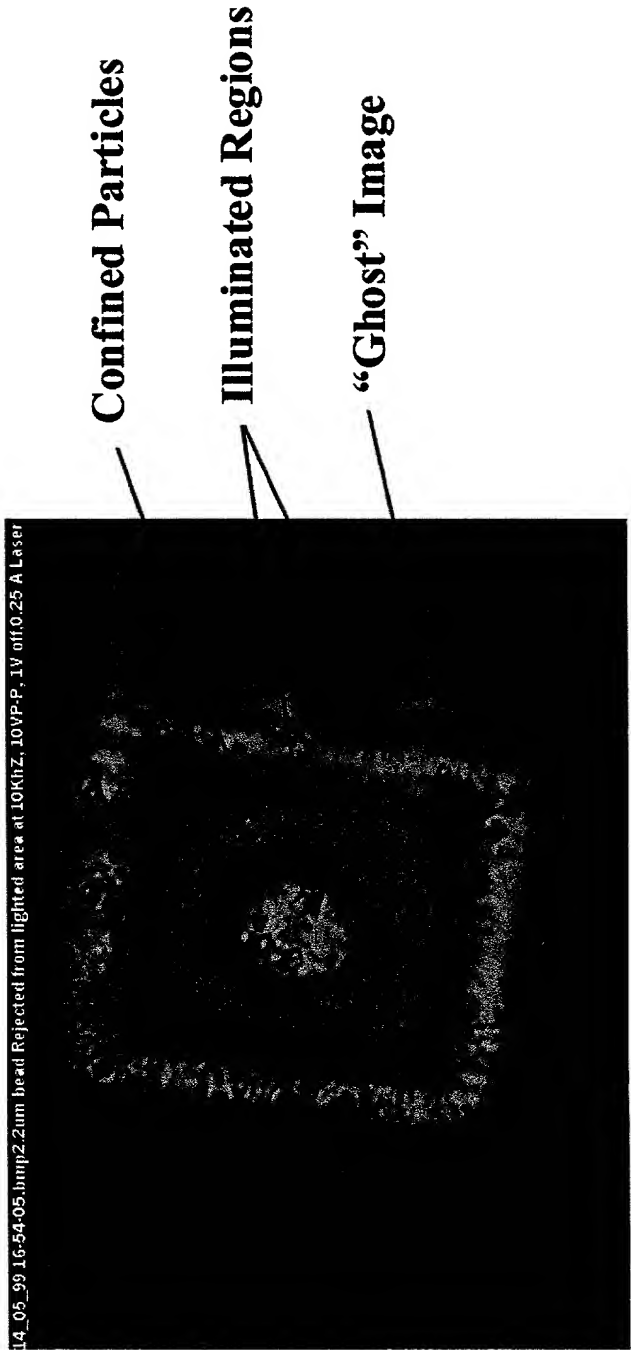


Figure 15b

DRAG AND DROP

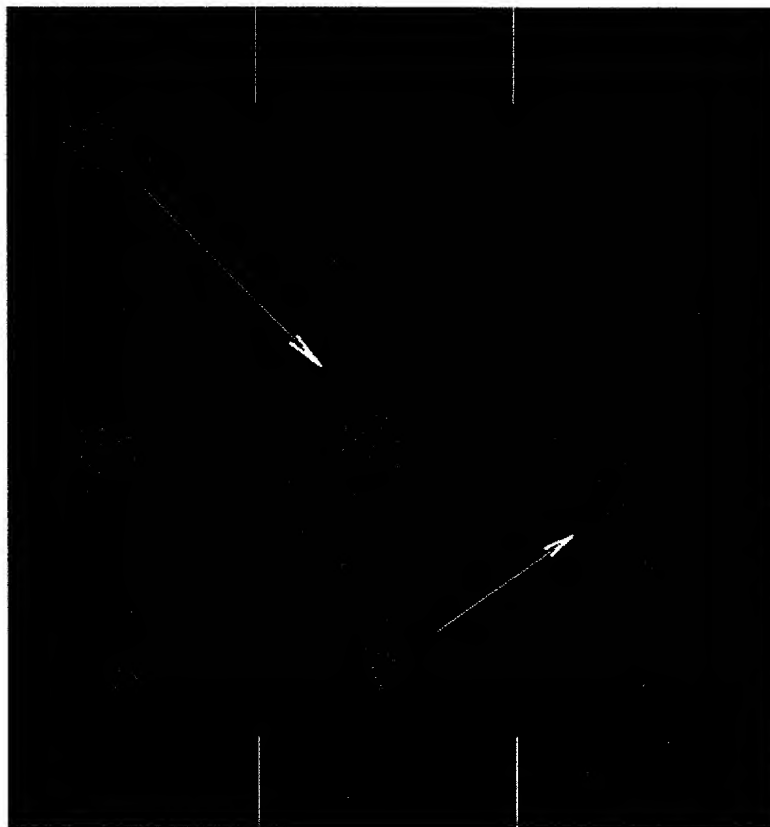


Figure 16

Programmable Array Reconfiguration and Segmentation

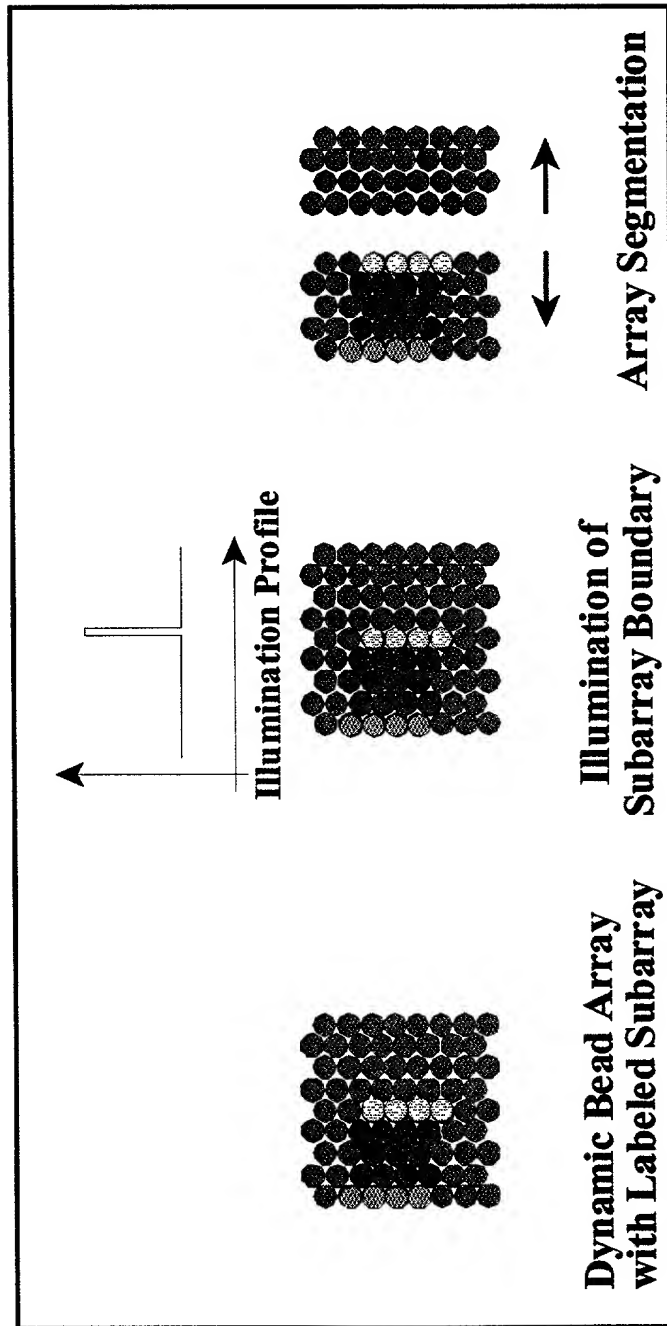


Figure 17

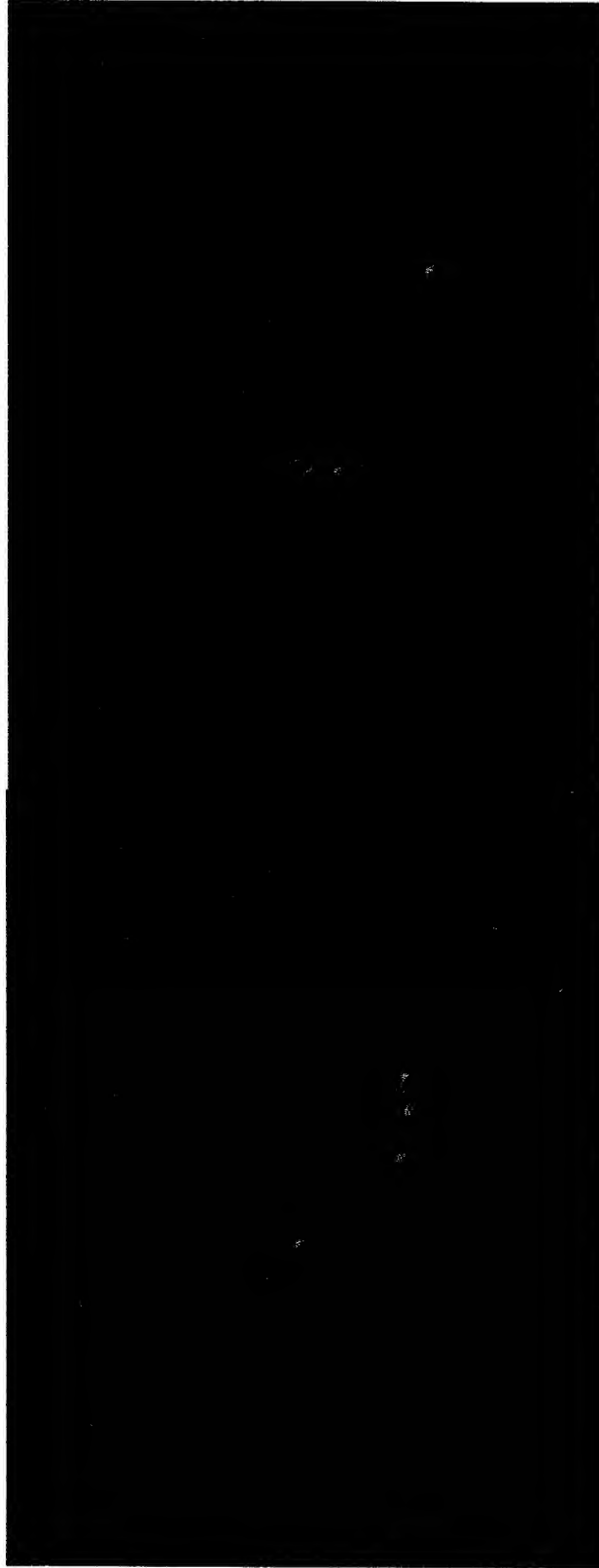


Figure 18b

LCD PARSE



Figure 19

FRACTIONATION

Differential Frequency Dependence of Particle Expulsion
 (NOTE: ω_c denotes a characteristic frequency)

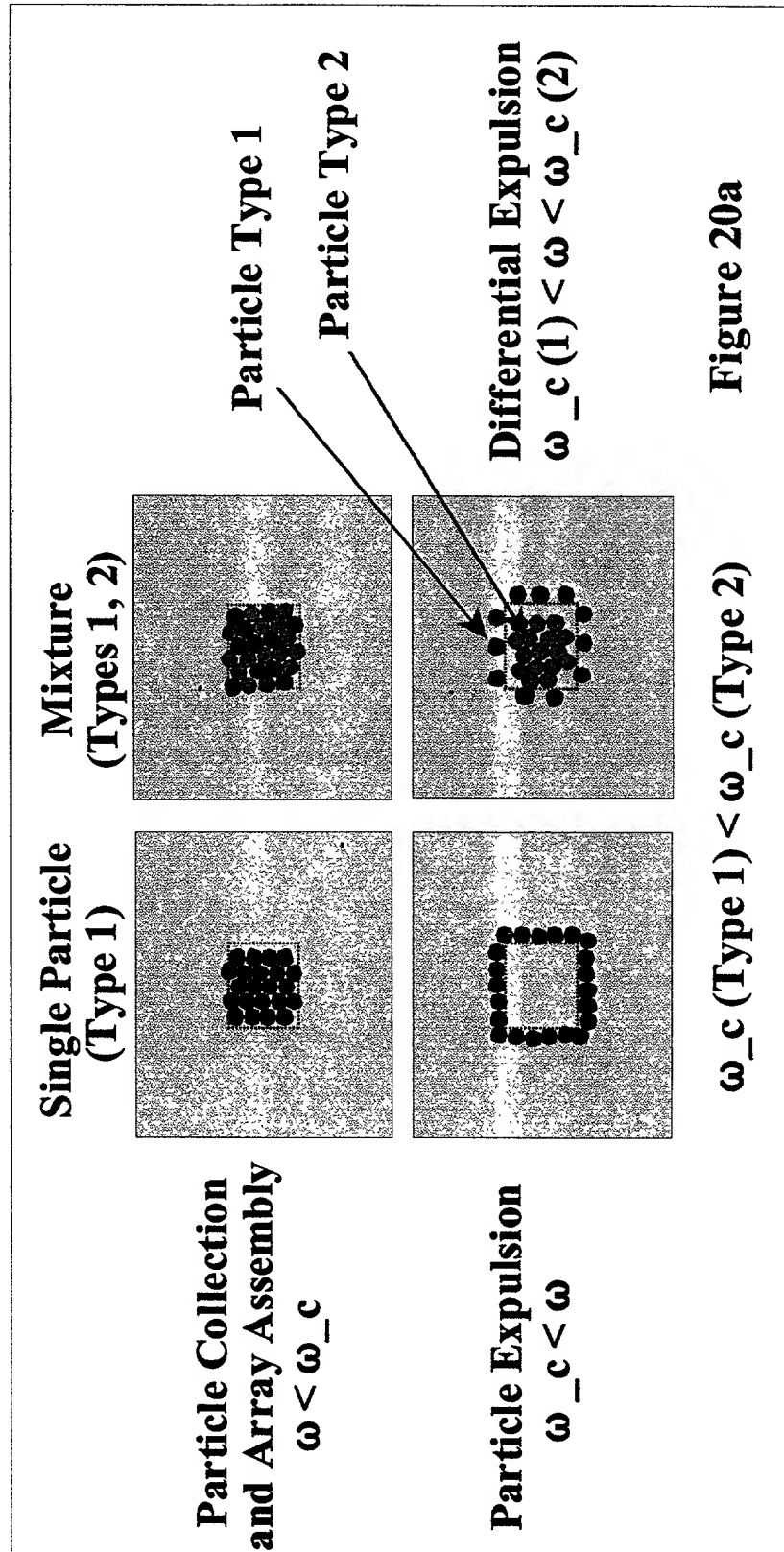


Figure 20a

FRACTIONATION

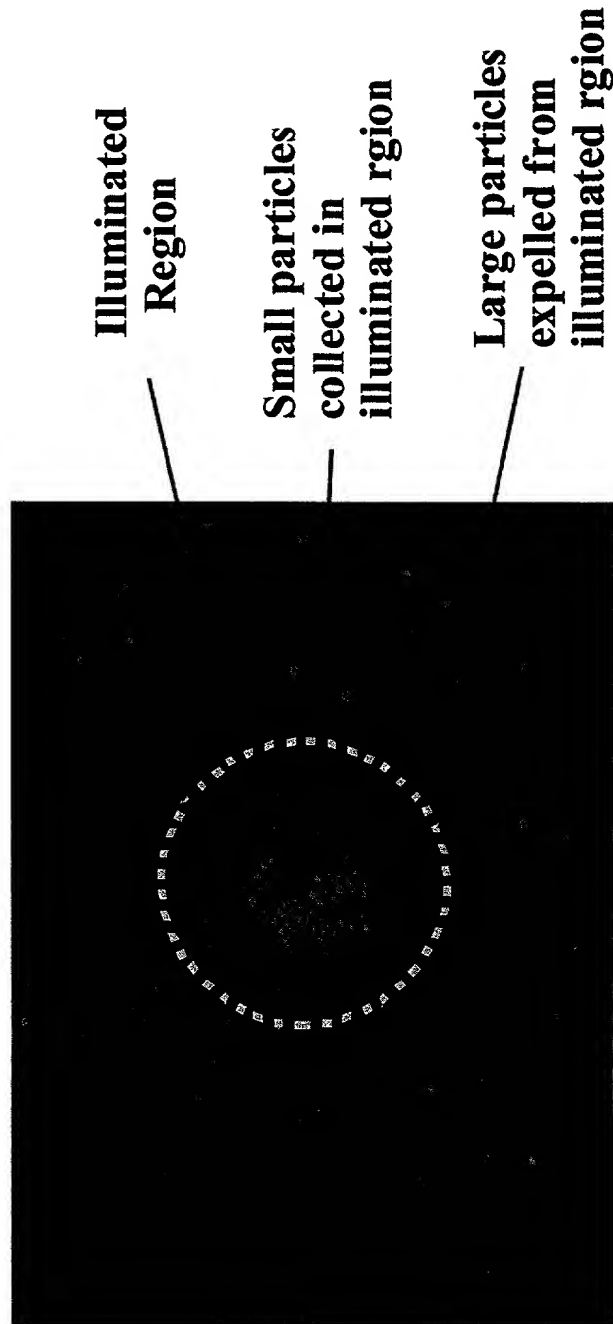


Figure 20b

TO THE LORD OF THE

LCD PARSE

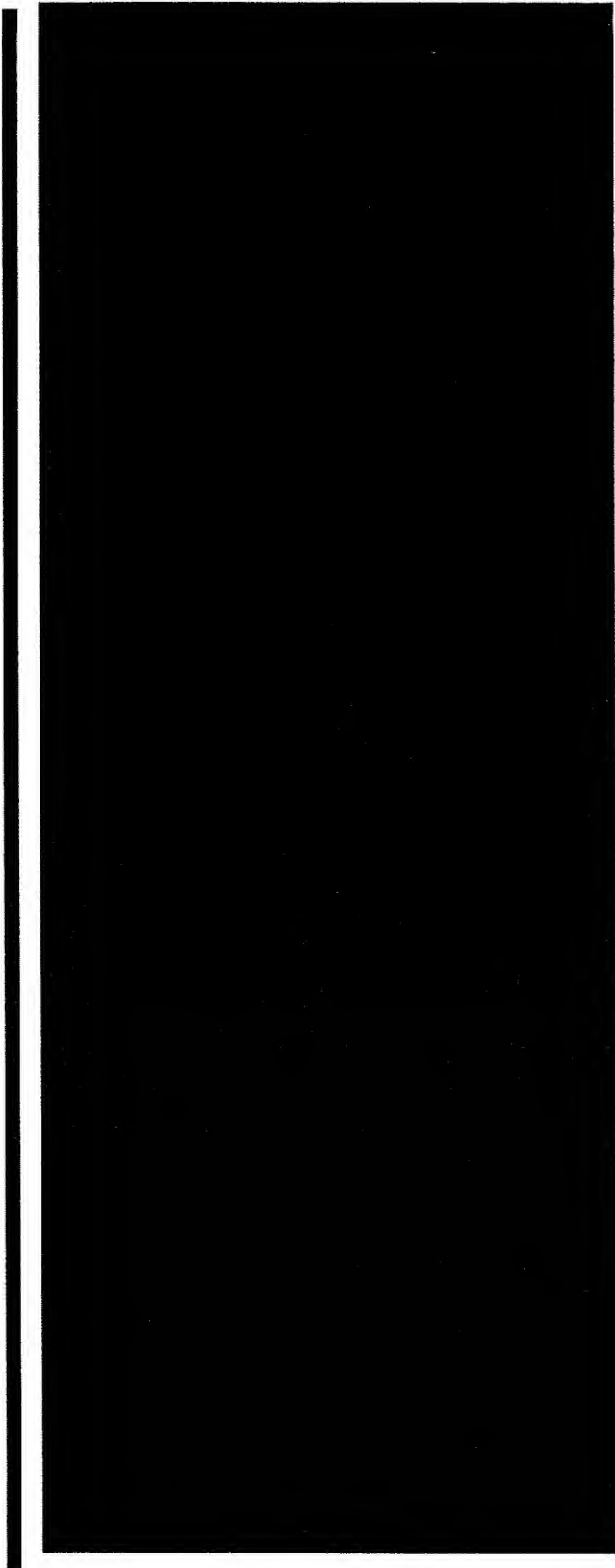


Figure 21b

Figure 21a

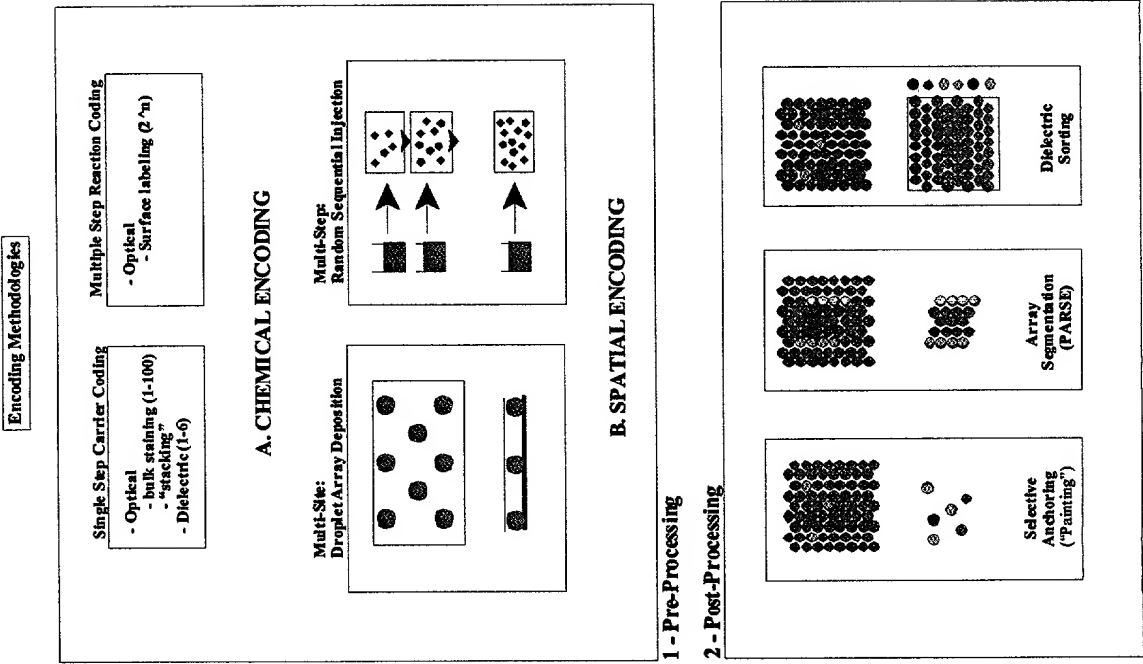


Figure 22a

Figure 22b

RANDOM SEQUENTIAL INJECTION

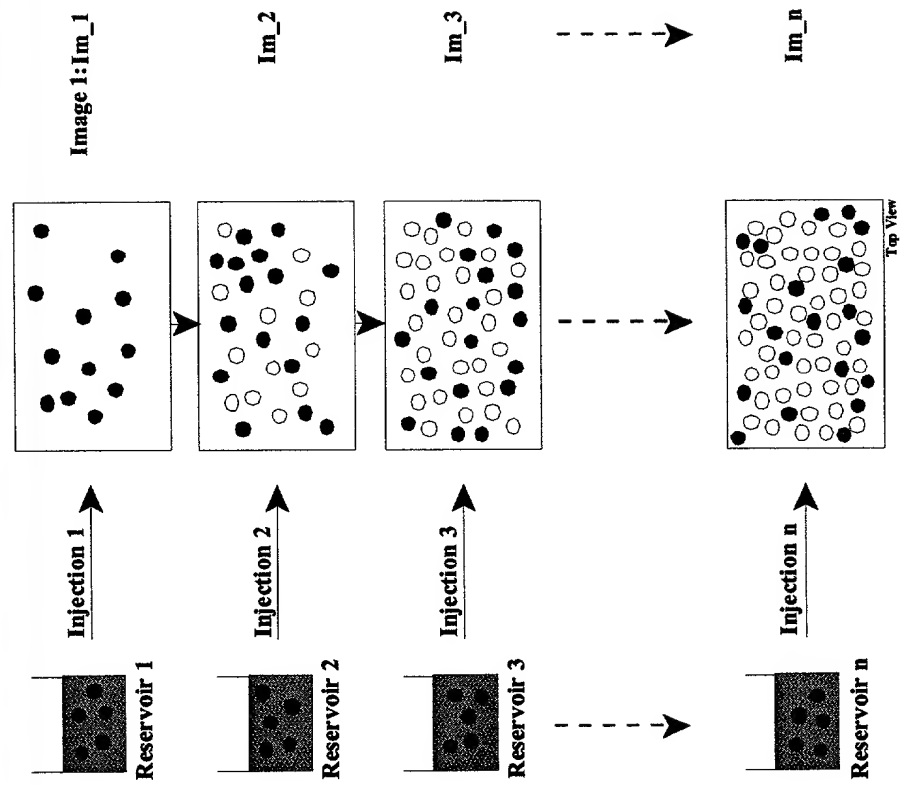


Figure 23



Figure 24

ARRAY ENCODING

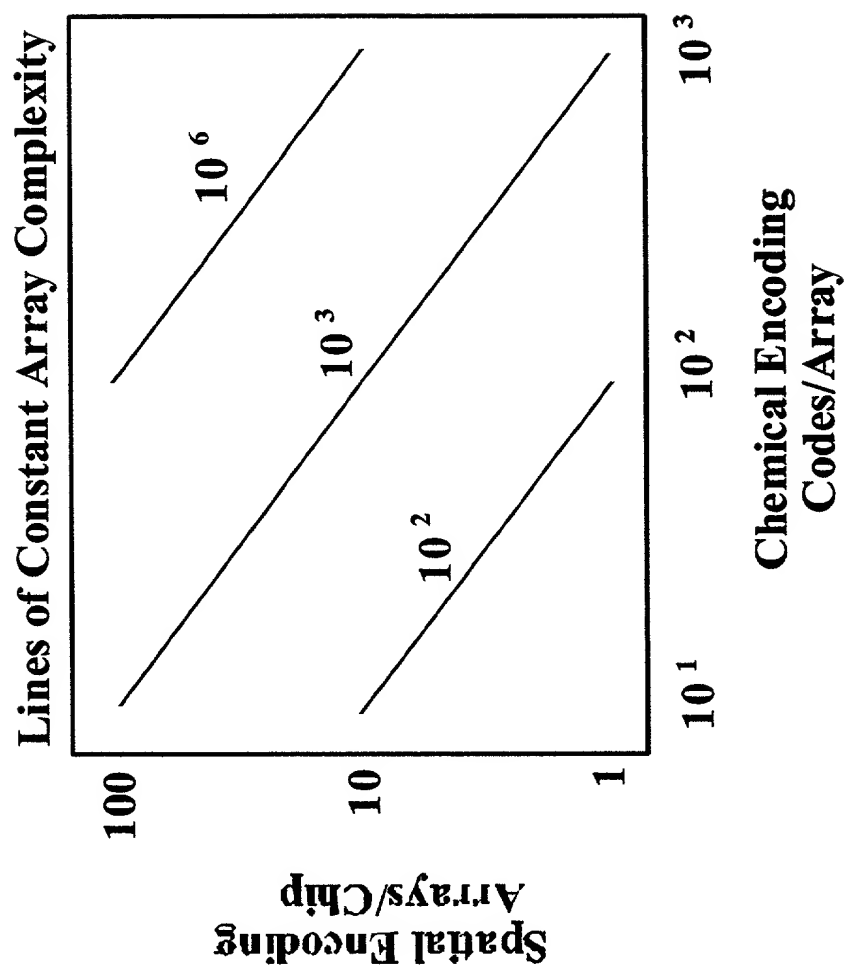


Figure 25b

ARRAY ENCODING

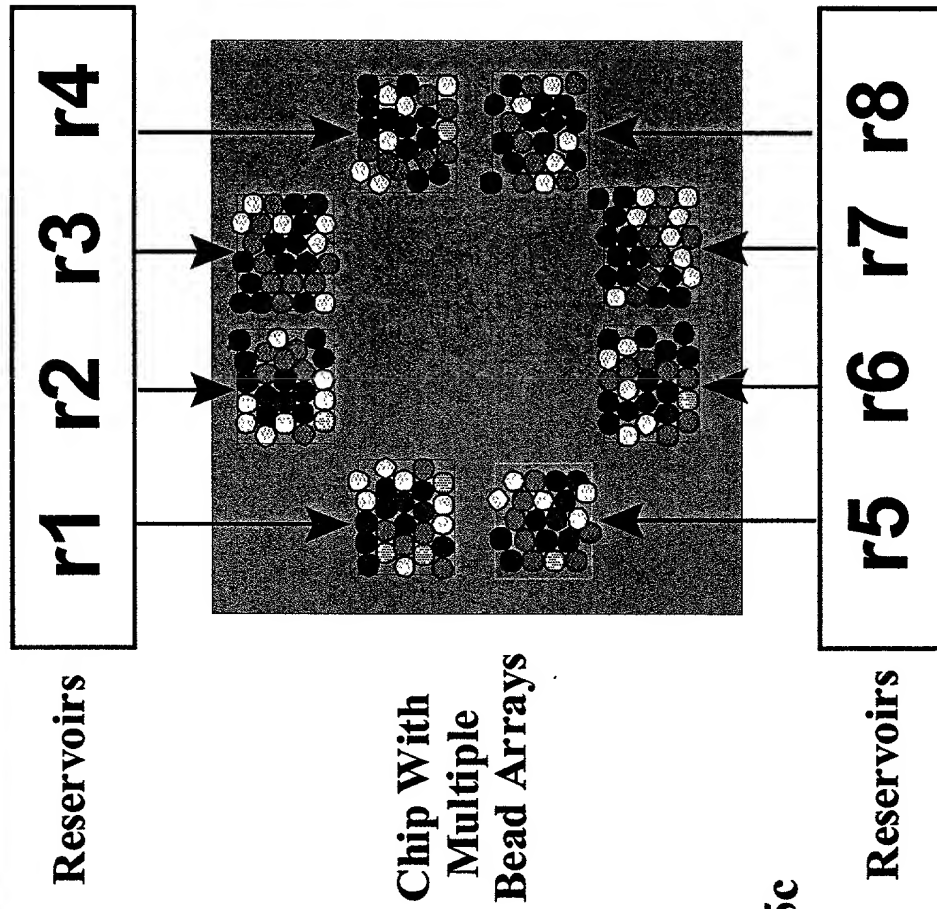


Figure 25c

SEQUENTIAL ASSEMBLY: "BANDING"

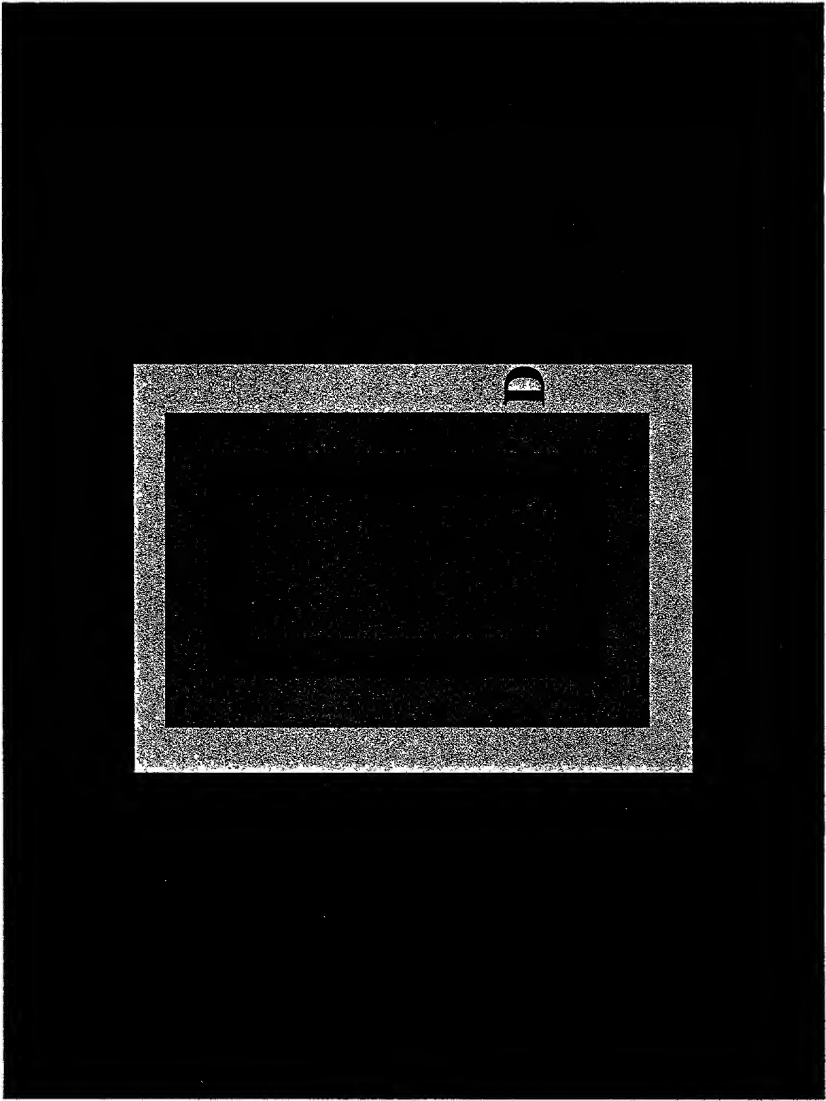


Figure 26a

SEQUENTIAL ASSEMBLY: "BANDING"

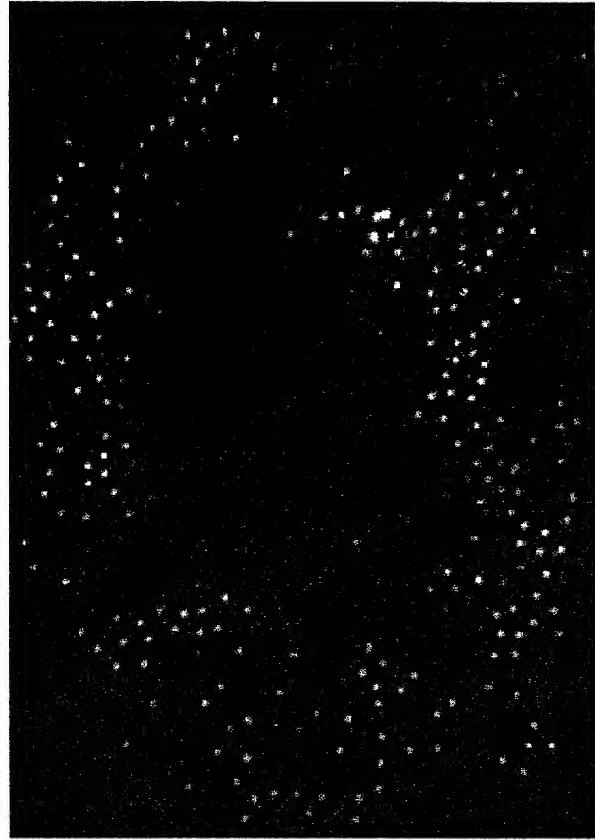
Mixture of Two Particle Types

Brightfield Image



2.8 μm 5.5 μm

Darkfield Image



2.8 μm 5.5 μm

Figure 26b

LCD PARSE

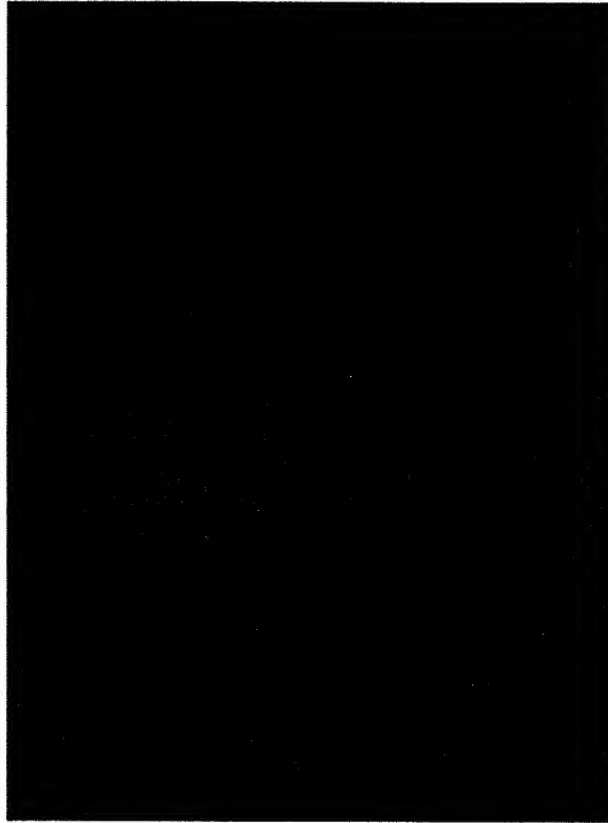


Figure 27

ARRAY OF RANDOM SUBARRAYS

A UNIQUE TWO-DIMENSIONAL BAR CODE

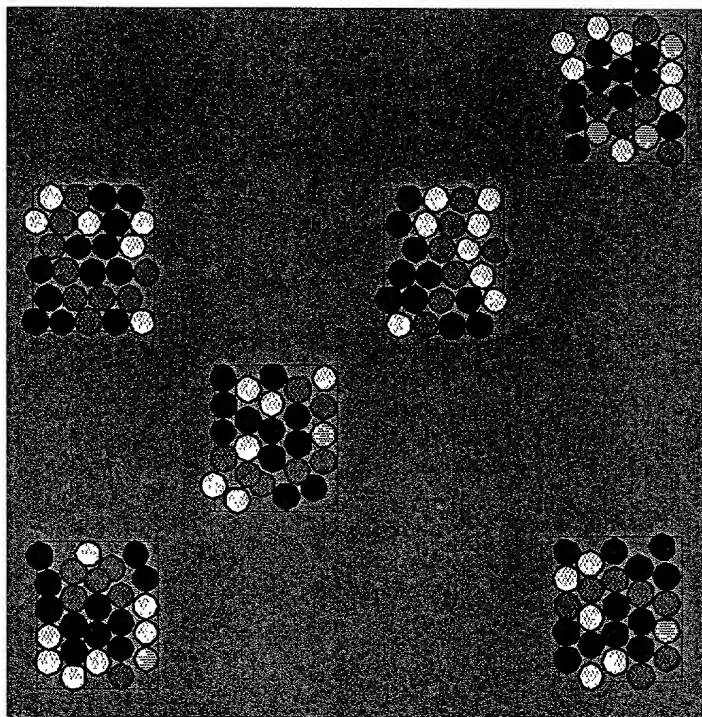


Figure 28

LIGHT-INDUCED FLUID FLOW

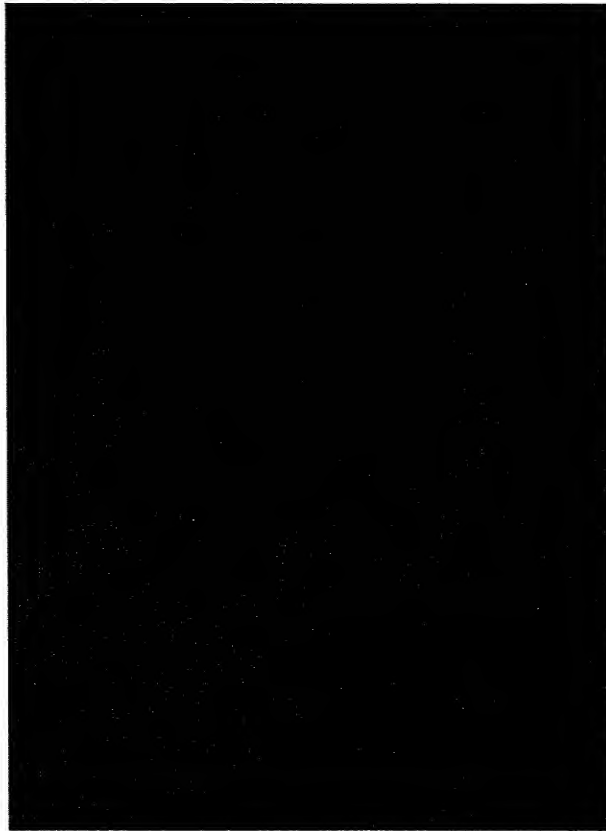


Figure 29